

## ABSTRACT

A motor has a stator with a simplified structure having a stator section including at least two core pairs. Each of the core pairs includes inner and outer cores. Coils are wound around the core pairs. A case made of a magnetic material covers the coils in a manner that the case more securely comes in contact with the inner cores and the outer cores. The case is welded to at least the inner cores to securely form independent magnetic circuits.